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TI Extrusion of fiber-reinforced inorganic products

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SO Jpn. Kokai Tokkyo Koho, 5 pp.

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DT Patent

LA Japanese

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CC 58-4 (Cement, Concrete, and Related Building Materials)

FAN.CNT 1

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CLASS

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JP 06144911	ICM	C04B028-02
	ICS	B28B003-20; C04B016-02; C04B016-06
	ICI	C04B028-02, C04B016-06, C04B016-02, C04B014-04, C04B018-14, C04B014-16, C04B024-22
	IPCI	C04B0028-02 [ICM,5]; B28B0003-20 [ICS,5]; C04B0016-02 [ICS,5]; C04B0016-06 [ICS,5]; C04B0028-02 [ICI,5]; C04B0028-00 [ICI,5,C*]; C04B0016-06 [ICI,5]; C04B0016-02 [ICI,5]; C04B0016-00 [ICI,5,C*]; C04B0014-04 [ICI,5]; C04B0018-14 [ICI,5]; C04B0018-04 [ICI,5,C*]; C04B0014-16 [ICI,5]; C04B0014-02 [ICI,5,C*]; C04B0024-22 [ICI,5]; C04B0024-00 [ICI,5,C*]
	IPCR	B28B0003-20 [I,C*]; B28B0003-20 [I,A]; C04B0016-00 [I,C*]; C04B0016-02 [I,A]; C04B0016-06 [I,A]; C04B0020-00 [I,C*]; C04B0020-10 [I,A]; C04B0028-00 [I,C*]; C04B0028-02 [I,A]
	ECLA	C04B020/10F4; C04B028/02

AB In asbestos-free compns. containing cement, siliceous material, fiber, lightwt. aggregate, and extruding aids, SiO₂ fume and sand (fineness ≥ 8000 cm²/g) in weight ratio (15-25):(85-75) as siliceous material, synthetic fibers $\geq 0.05\%$ (vs. weight of composition) and cellulose pulp coated with fine SiO₂ powder 5-7% (as fibers), and microballoons 6-10 volume% (vs. composition) as lightwt. aggregate and water-reducing agent 0.5-1.5 weight% (vs. cement and siliceous material) are used. The resulting compns. are kneaded, extruded, steam-cured, and autoclaved at steam pressures ≥ 4 kg/cm² to give the title products. A slurry prepared from cement 50, SiO₂ fume 6, sand (fineness 8000 cm²/g) 34, pulp coated with SiO₂ powder (fineness 10,000 cm²/g) 5, sand 5, polynosic rayon 0.1, microspheres of poly(vinylidene chloride) resin 10, Me cellulose 1, and superplasticizer 1 weight parts, under addition of water, was extruded at 18-25 kg/cm², steam-cured for 12 h, and autoclaved at 6 kg/cm² for 8 h to give explosion-resistant boards having bending strength 251 kg/cm².

ST extrusion fiber cement explosion resi